

**To:** Deschambault, Lynda[Deschambault.Lynda@epa.gov]  
**Cc:** Brown, Anthony R (RM)[anthony.brown@bp.com]; Jefferson, Jill[Jill.Jefferson@amecfw.com]  
**From:** Lombardi, Marc  
**Sent:** Fri 7/28/2017 11:05:35 PM  
**Subject:** Leviathan Mine - Documentation of Biological Resource Surveys

Lynda,

This email was prepared as a follow-up to a telephone conversation between you and Tony Brown on Monday, July 24, 2017. Tony indicated that you were interested in biological resource surveys at Leviathan Mine and how they have been documented. We have conducted numerous plant and wildlife surveys at Leviathan Mine over the years, both as part of stand-alone formal studies and as surveys conducted prior to implementation of work in potentially sensitive areas and/or at the request of the U.S. Forest Service. The following is a summary listing of such documentation:

August 3, 2012; 2011 Remedial Investigation/Feasibility Study Data Summary Report.

- Description and results of terrestrial habitat (plant) verification survey

January 28; 2014; 2012 Remedial Investigation/Feasibility Study Data Summary Report.

- Description and results of riparian habitat (plant) verification survey and aquatic habitat assessment

October 31; 2014; 2013 Remedial Investigation/Feasibility Study Data Summary Report.

- Description and results of riparian habitat verification (plant) survey and aquatic habitat assessment (rapid bioassessment protocol)

March 20, 2015; Technical Memorandum – Habitat Surveys, Plant Species, and Study Design for Plant Sampling

- Results of habitat verification (plant) surveys and the resource walk with the Washoe Tribe

May 14, 2015; Letter to U.S. Forest Service with cc to U.S. EPA. Subject: Ground Disturbance Plan for Well Installation

- Documentation that plant and cultural resources surveys were conducted and that storm water best management practices were developed.

July 16, 2015; Letter to U.S. Forest Service with cc to U.S. EPA. Subject: Updated Plant Analysis for Ground Disturbance Plan for Well Installation

- Documentation that no plants identified in the proposed work areas are on the Carson Rapid Assessment Chart and that none of the plants observed are on the State and Federally Listed Endangered, Threatened, and Rare Plants of California listing.

September 21 and 22, 2015; Daily Activities Summary, Amendment 10 Field Implementation (note: the activity summaries were submitted to U.S. EPA on a daily basis throughout implementation of the Amendment No. 10 field work in the Beaver Dam/Pond Complex (BD/PC)).

- Documentation that sensitive plants survey and fish excursion survey were conducted. Field teams monitored ponds for stranded vertebrate animals in the drained ponds, which was part of the planned biological monitoring.

April 15, 2016; Preliminary Evaluation of Stream Sediment and Floodplain Soil Sampling Results for Beaver Dam/Pond Complex Sampling in the On-Property Reach of Leviathan Creek

- Documentation that measures implemented to protect biological resources and cultural resources as described in Attachment D to Amendment No. 10 were conducted.

June 23, 2016; Letter to U.S. Forest Service with cc to U.S. EPA. Subject: 2016 Ground Disturbance Plan for Well Installation.

- Documentation of planned and implemented mitigation activities for Best Management practices, traffic control, fire prevention, cultural resource survey performance, previous and planned plant identification activities.

August 17, 2016; Letter to U.S. Forest Service with cc to U.S. EPA. Subject: Plant Reconnaissance for 2016 Drill Locations on U.S. Forest Managed Lands.

- Documentation that no plants identified in the proposed work areas are on the Carson Rapid Assessment Chart and that none of the plants observed are on the State and Federally Listed Endangered, Threatened, and Rare Plants of California listing.

March 31, 2017; 2015 Remedial Investigation/Feasibility Study Annual Data Summary Report.

- Description of access preparation, erosion control, and protection of biological and cultural resources during the Beaver Dam/Pond Complex Investigation.

In addition to our own surveys, Amec Foster Wheeler has also conducted record searches and reviewed the results of biological surveys performed by the US Fish and Wildlife Service, including the October 2013 fish survey, as described in Appendix A (pg. 7) to the Draft Focused Feasibility Study Work Plan, Evaluation of Remedial Technologies for Leviathan Creek Beaver Dam/Pond complex.

If you have any questions, please contact Tony Brown at (657) 529-4537 or [anthony.brown@bp.com](mailto:anthony.brown@bp.com).

Thanks,

Marc

**Marc R. Lombardi, CEM, PG**

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